### **ENGLISH MEASUREMENT VERSION**



## 1694F Coax - Low Loss Serial Digital Coax

For more Information please call

1-800-Belden1



# **Description:**

19 AWG stranded (7x27) bare copper conductor, gas-injected foam HDPE insulation, double tinned copper braid shield (98% coverage), PVC jacket.

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	•	<b>Conductor Material</b>	, ,
1	19	7x27	BC - Bare Copper	.040

#### Insulation

### Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.180

# **Outer Shield**

#### **Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	93.000
2	Braid	TC - Tinned Copper	94.000

### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

#### **Overall Cable**

Overall Nominal Diameter: 0.276 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	50 lbs/1000 ft.
Max. Recommended Pulling Tension:	82 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.750 in.

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes





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EU Directive 2003/11/EC (BFR):	Yes		
CA Prop 65 (CJ for Wire & Cable):	Yes		
MII Order #39 (China RoHS):	Yes		
RG Type:	6/U		
Flame Test			
UL Flame Test:	UL1666 Vertical Shaft		
Suitability			
Suitability - Indoor:	Yes		
Suitability - Outdoor:	Yes - Black only		
Suitability - Aerial:	Yes - Black only, when supported by a messenger wire		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

1695A

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



**Plenum Number:** 

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



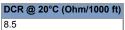
**Nominal Velocity of Propagation:** 



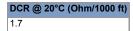
**Nominal Delay:** 



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.240
3.580	0.450
5.000	0.540
6.000	0.550
7.000	0.620
10.000	0.720
12.000	0.830
25.000	1.180
67.500	1.900
71.500	2.000
88.500	2.200
100.000	2.400
135.000	2.800
143.000	2.900

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180.000	3.300
270.000	4.000
360.000	4.700
540.000	5.900
720.000	6.900
750.000	7.000
1000.000	8.200
1500.000	10.400
2000.000	12.300
2250.000	13.200
3000.000	15.600
4500.000	19.800

#### Max. Operating Voltage - UL:

Voltage 300 V RMS

### Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

> Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2

using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a Other Electrical Characteristic 2:

75 Ohm fixed bridge and termination.

#### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	850	20
850	4500	15

#### **Sweep Test**

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

### **Related Documents:**

No related documents are available for this product

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1694F B591000	1,000 FT	54.000 LB	BLACK, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F G7V1000	1,000 FT	54.000 LB	RED, MATTE	С	QLTHLDFHDLDPE DBLB FRPVC
1694F G7W1000	1,000 FT	54.000 LB	GREEN, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F G7X1000	1,000 FT	54.000 LB	BLUE, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F G7Y1000	1,000 FT	54.000 LB	WHITE, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F G8L1000	1,000 FT	54.000 LB	ORANGE, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F G8M1000	1,000 FT	54.000 LB	YELLOW, MATTE	С	#19 GIFHDLDPE DBLB FRPVC
1694F Z4B1000	1,000 FT	54.000 LB	VIO Z4B	С	#19 GIFHDLDPE DBLB FRPVC

## Notes:

C = CRATE REEL PUT-UP.

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